

## ABSTRACT

One or more masks comprising pseudorandom sequence generating  
polynomials are utilized to derive new polynomials to thereby minimize the  
5 number of polynomials that need be stored to support use of pseudorandom  
sequences. The polynomials each correspond to a given state of a  
pseudorandom sequence and derivation of a particular such polynomial will  
allow calculation of the corresponding given state. A radio (85) in a code  
division multiple access wireless communications system (80) uses this  
10 approach to achieve rapid phase correlation with a pseudorandom sequence  
that is used by the system to facilitate synchronization.